



FIG. 1
(PRIOR ART)

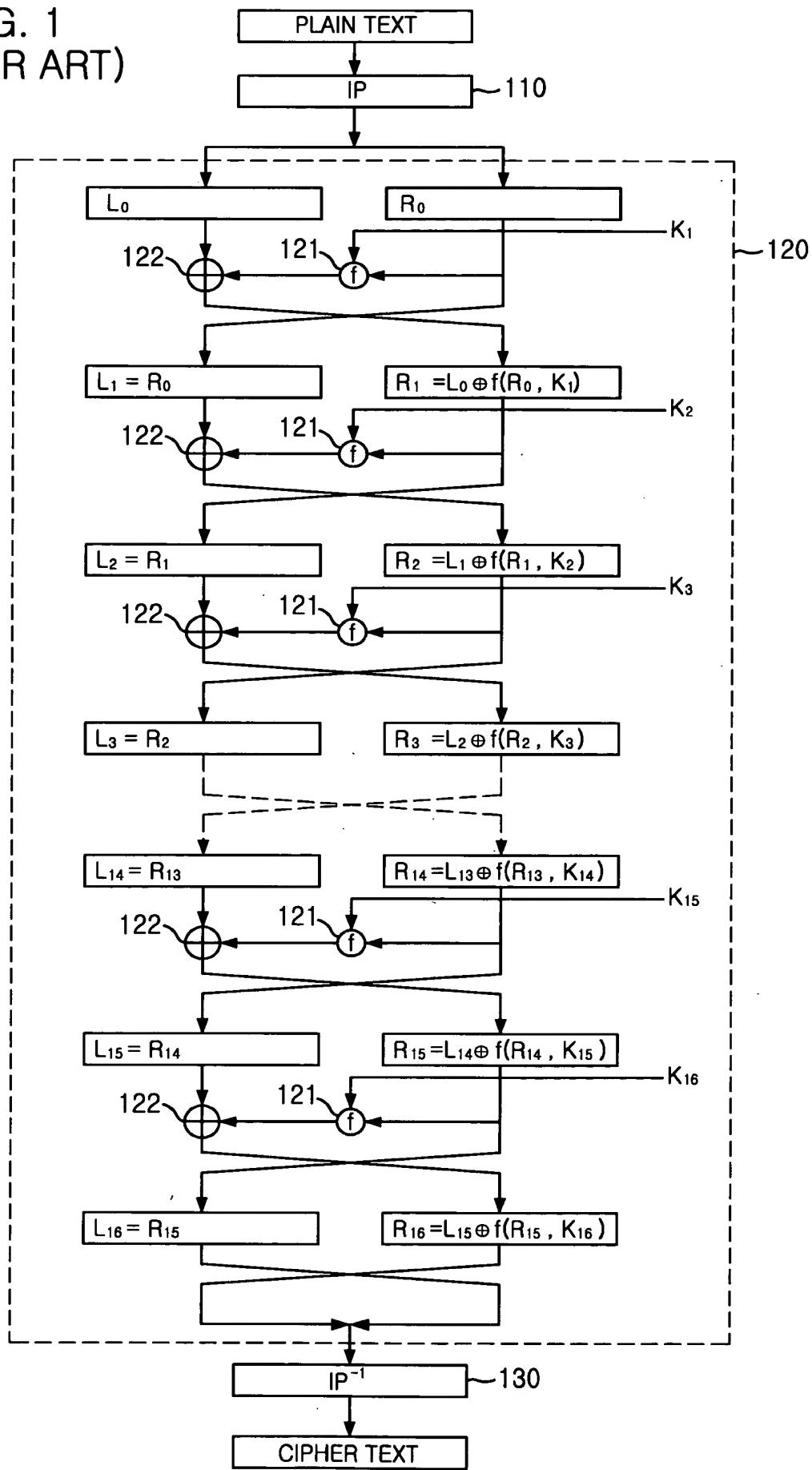


FIG. 2
(PRIOR ART)

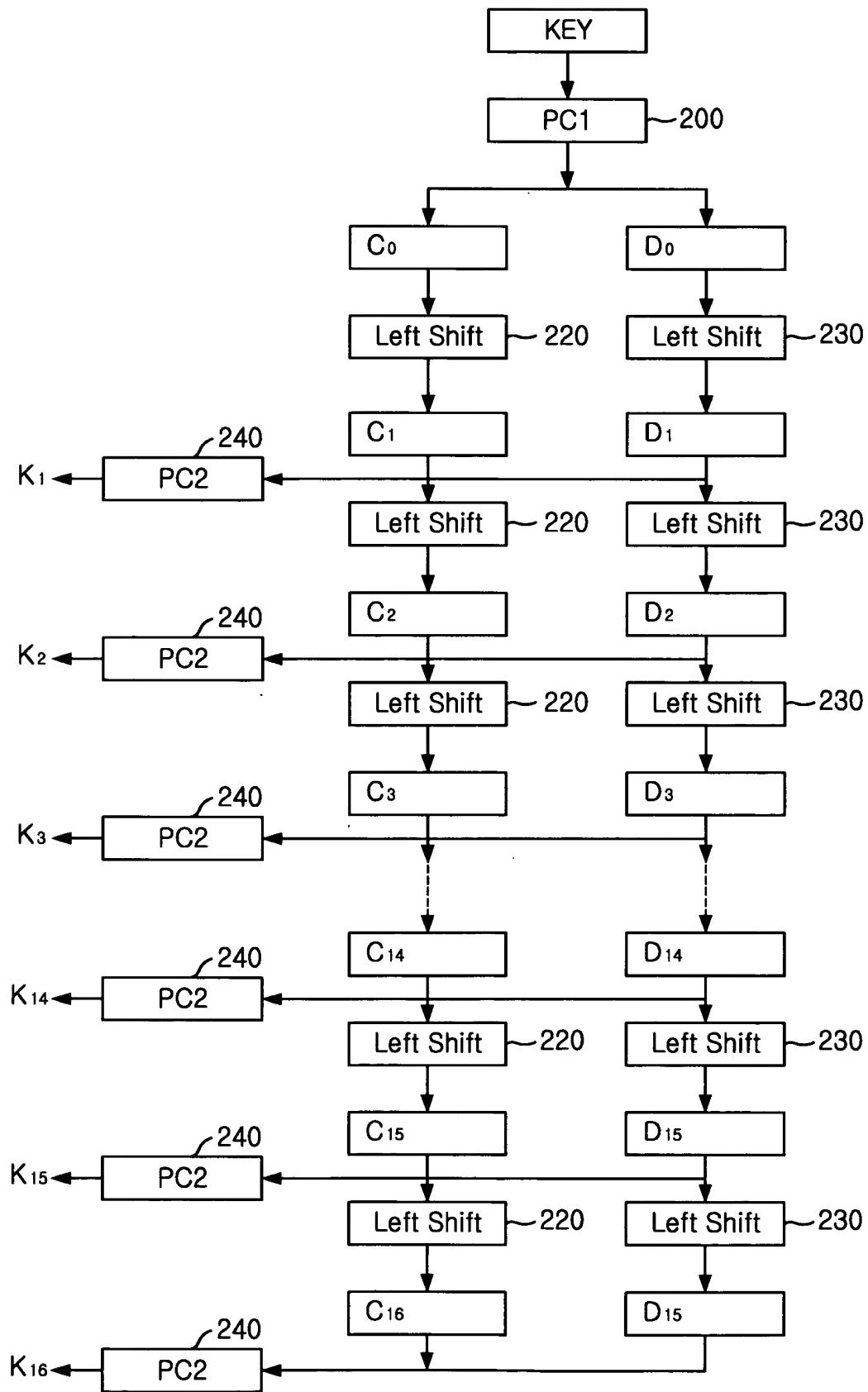


FIG. 3
(PRIOR ART)

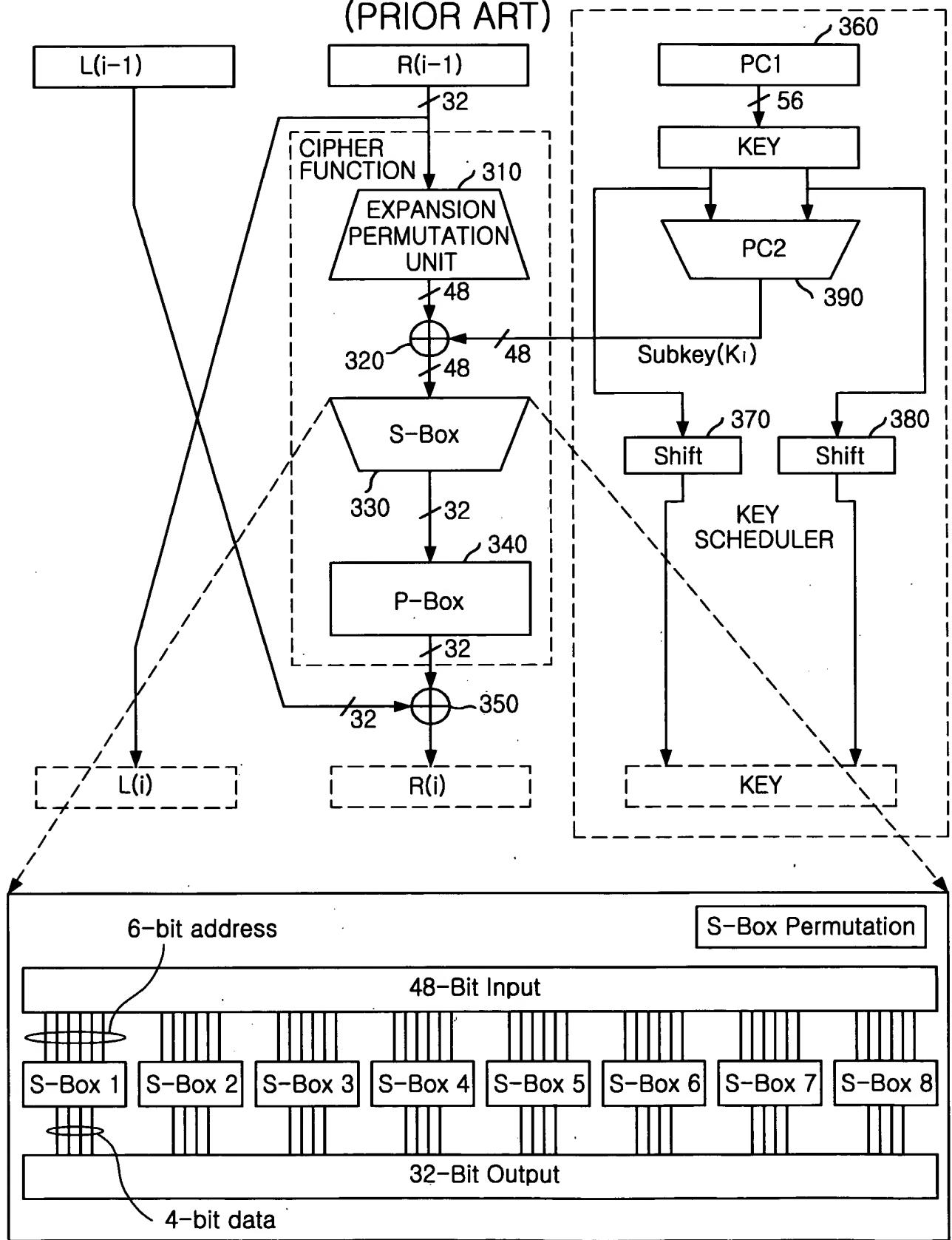


FIG. 4
(PRIOR ART)

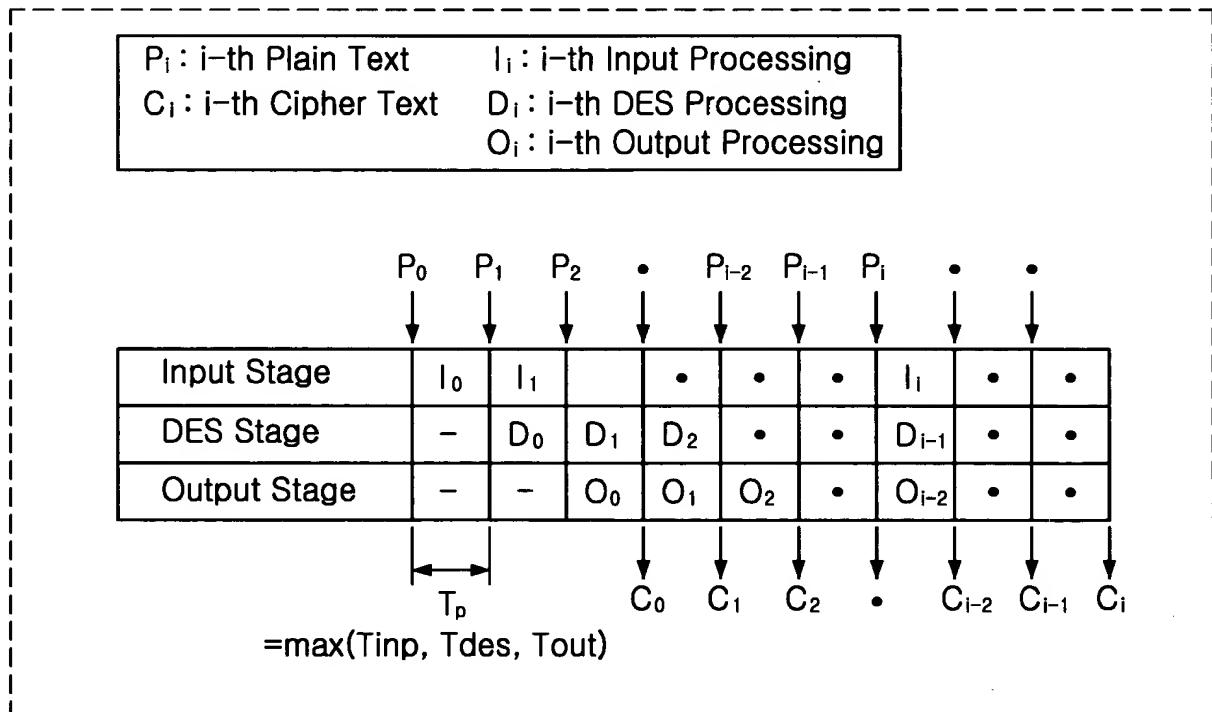
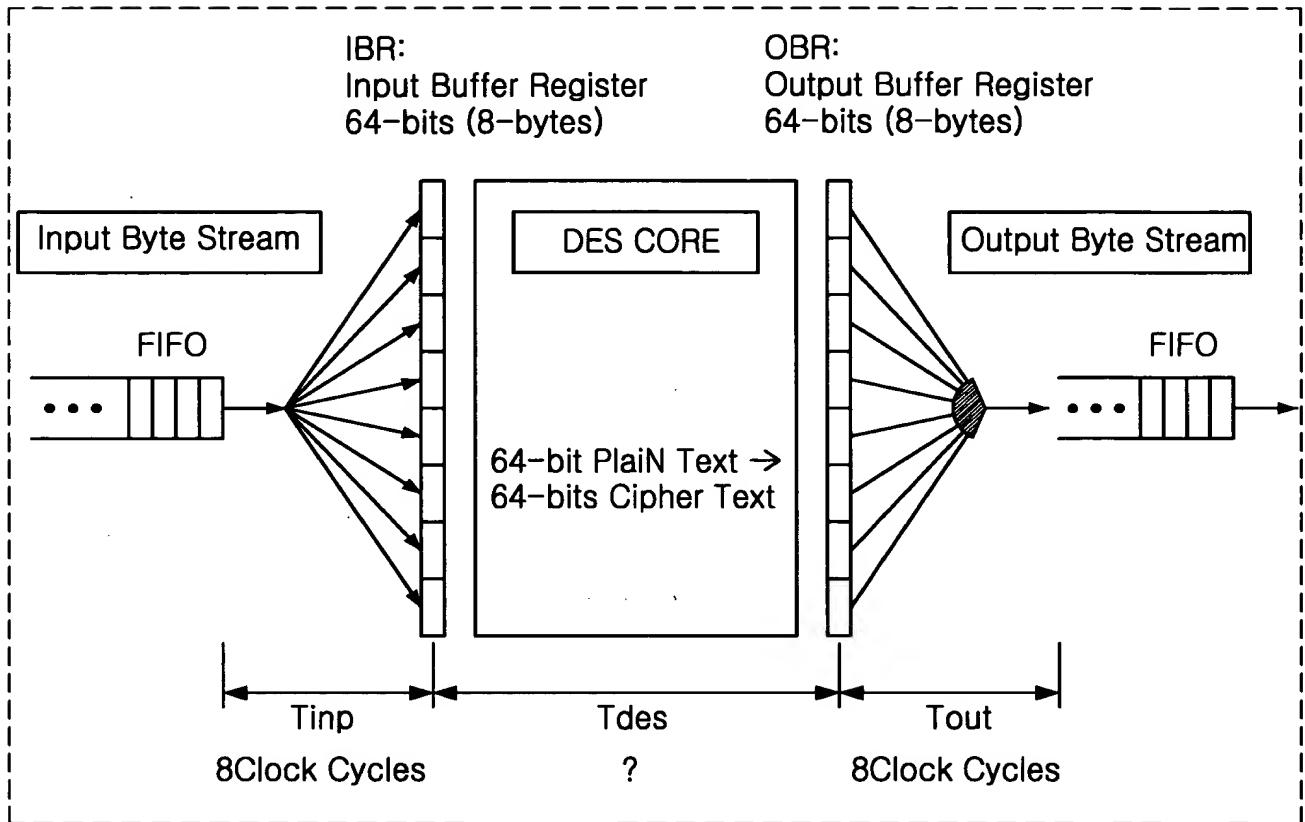


FIG. 5A
(PRIOR ART)

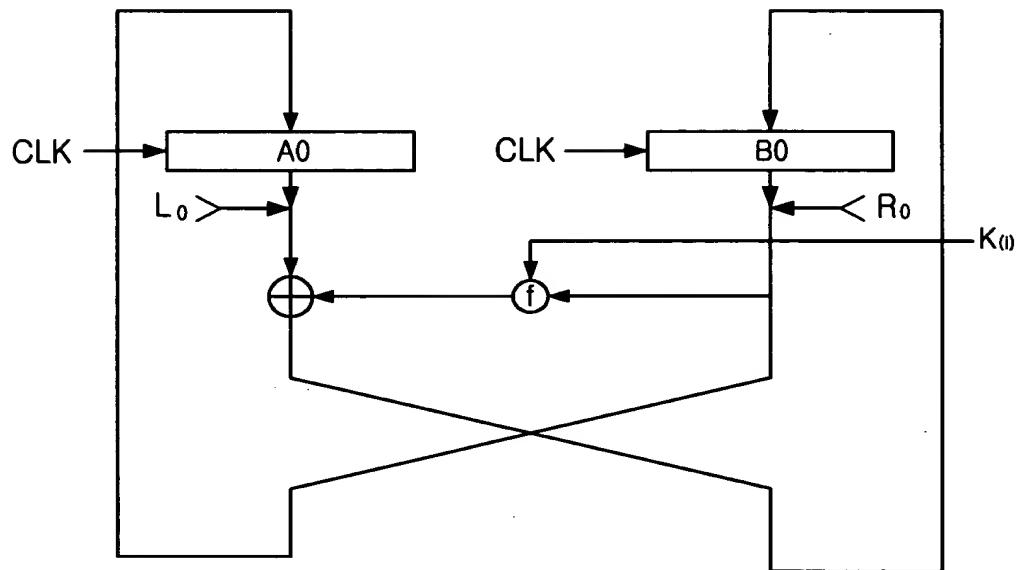


FIG. 5B

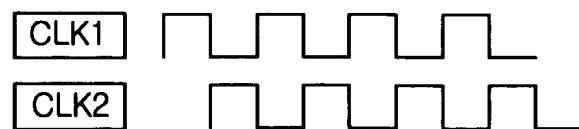
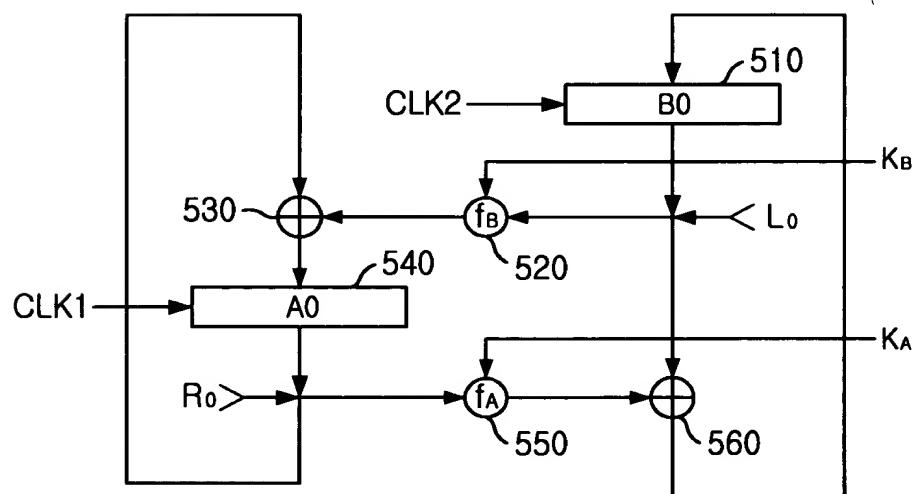


FIG. 6

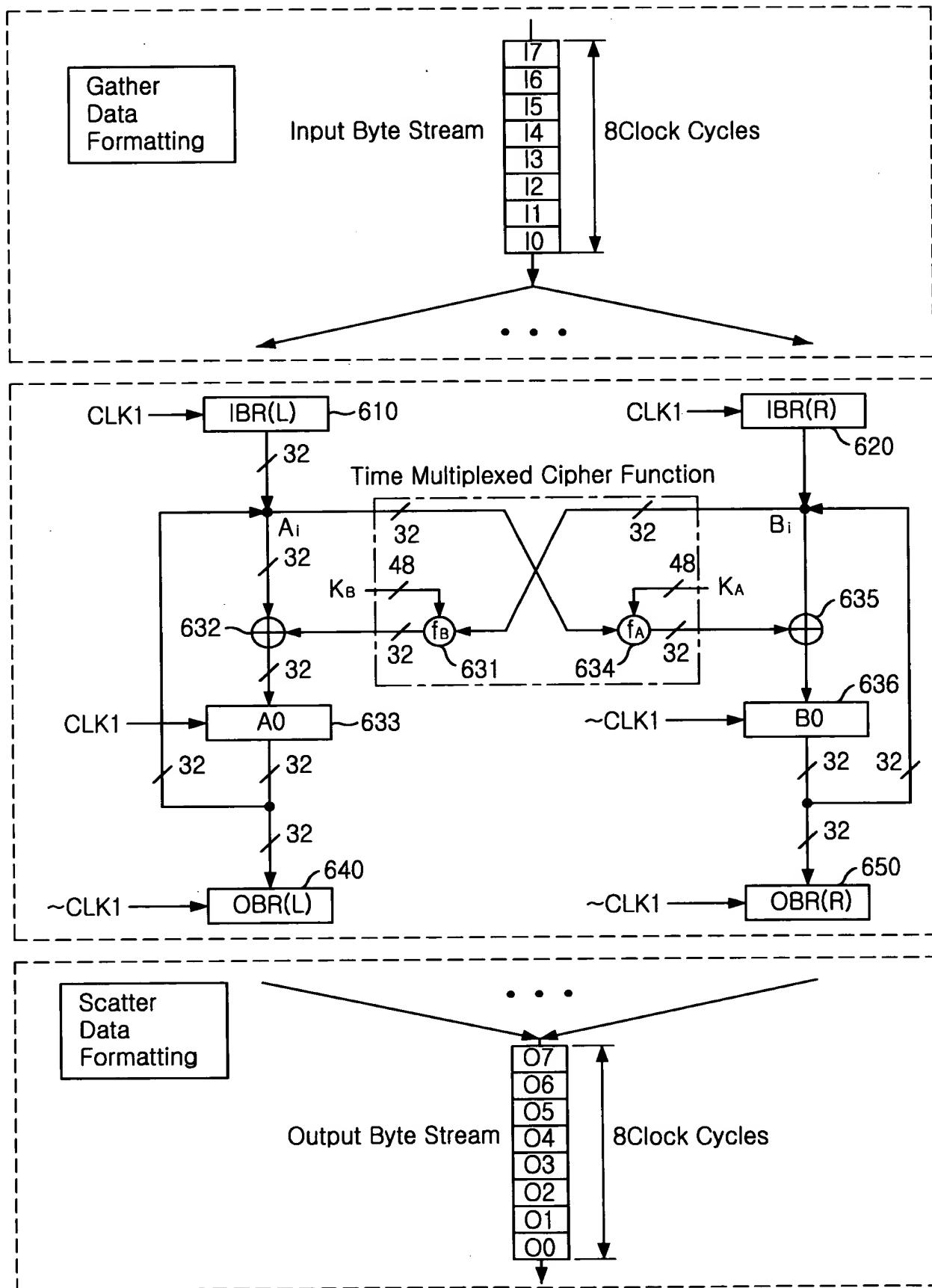


FIG. 7

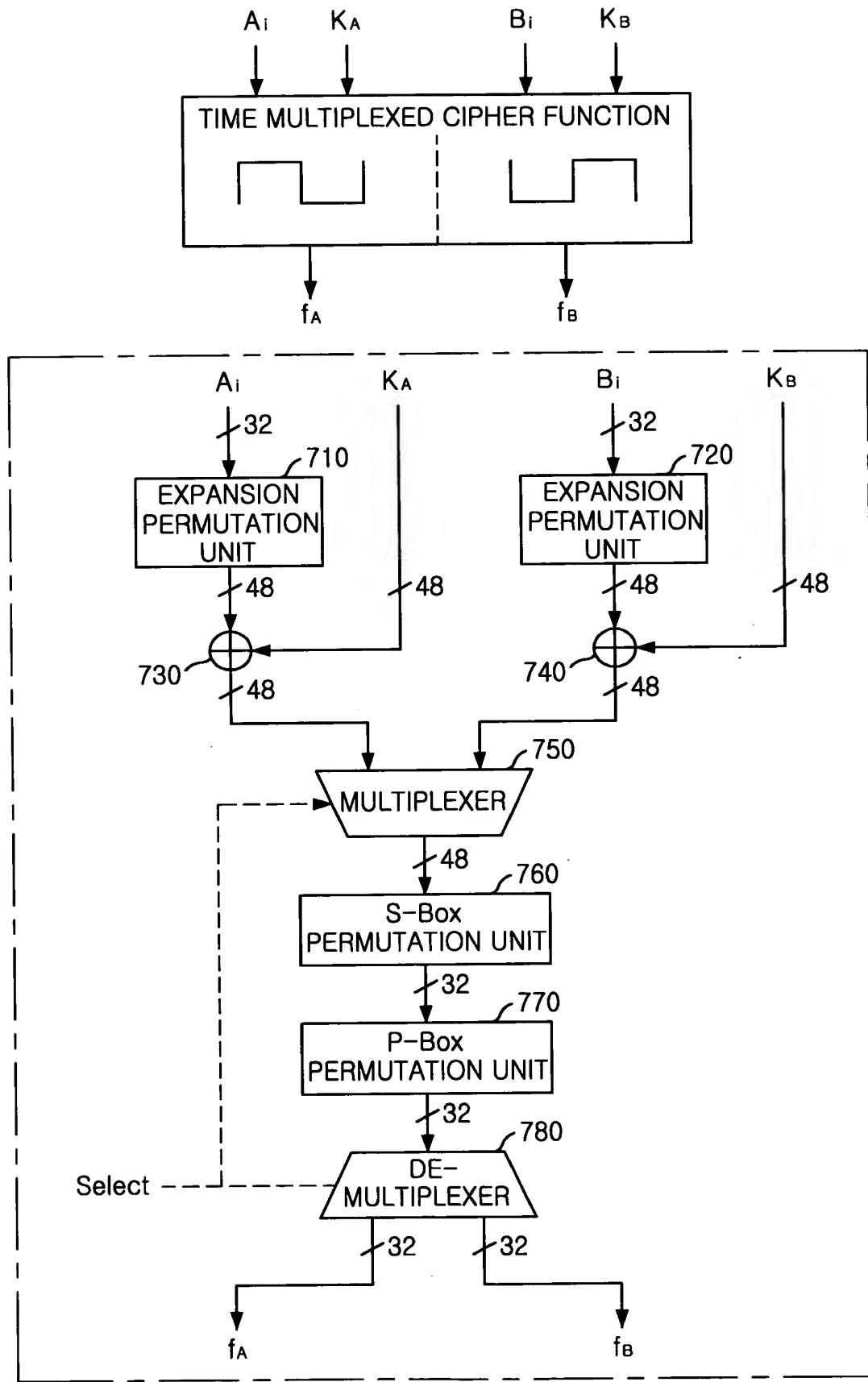


FIG. 8

Round	Left Shift Amount	Total Shift Amount
1(P_0)	3	1
2(P_1)	4	4
3(P_2)	4	8
4(P_3)	3	12
5(P_4)	4	15
6(P_5)	4	19
7(P_6)	4	23
8(P_7)	2	27

WHEN KEY IS LOADED FIRST TIME, IT SHOULD BE 1

Round	Left Shift Amount	Total Shift Amount
1(Q_0)	4	2
2(Q_1)	4	6
3(Q_2)	4	10
4(Q_3)	3	14
5(Q_4)	4	17
6(Q_5)	4	21
7(Q_6)	3	25
8(Q_7)	2	0

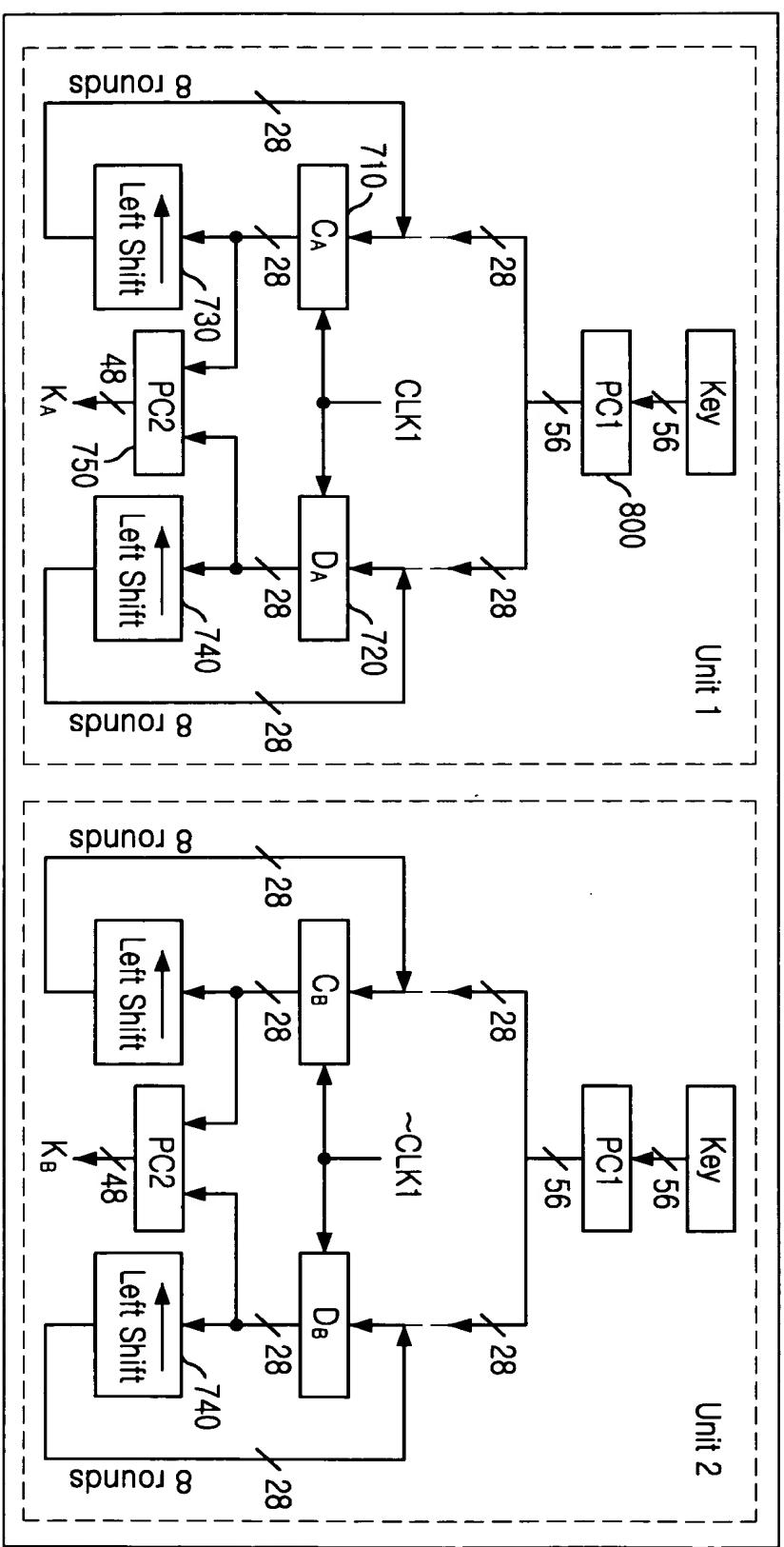


FIG. 9

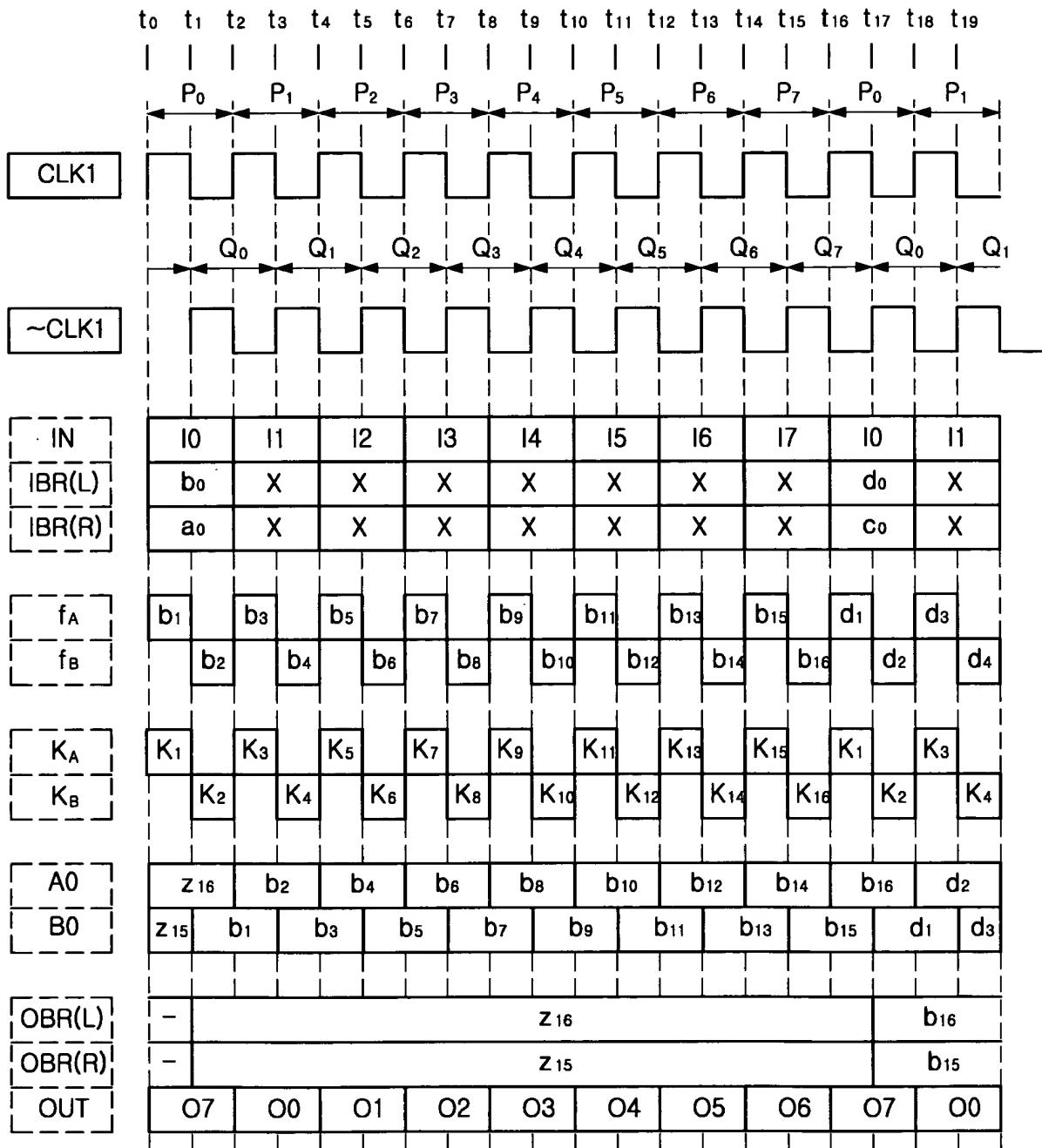


FIG. 10

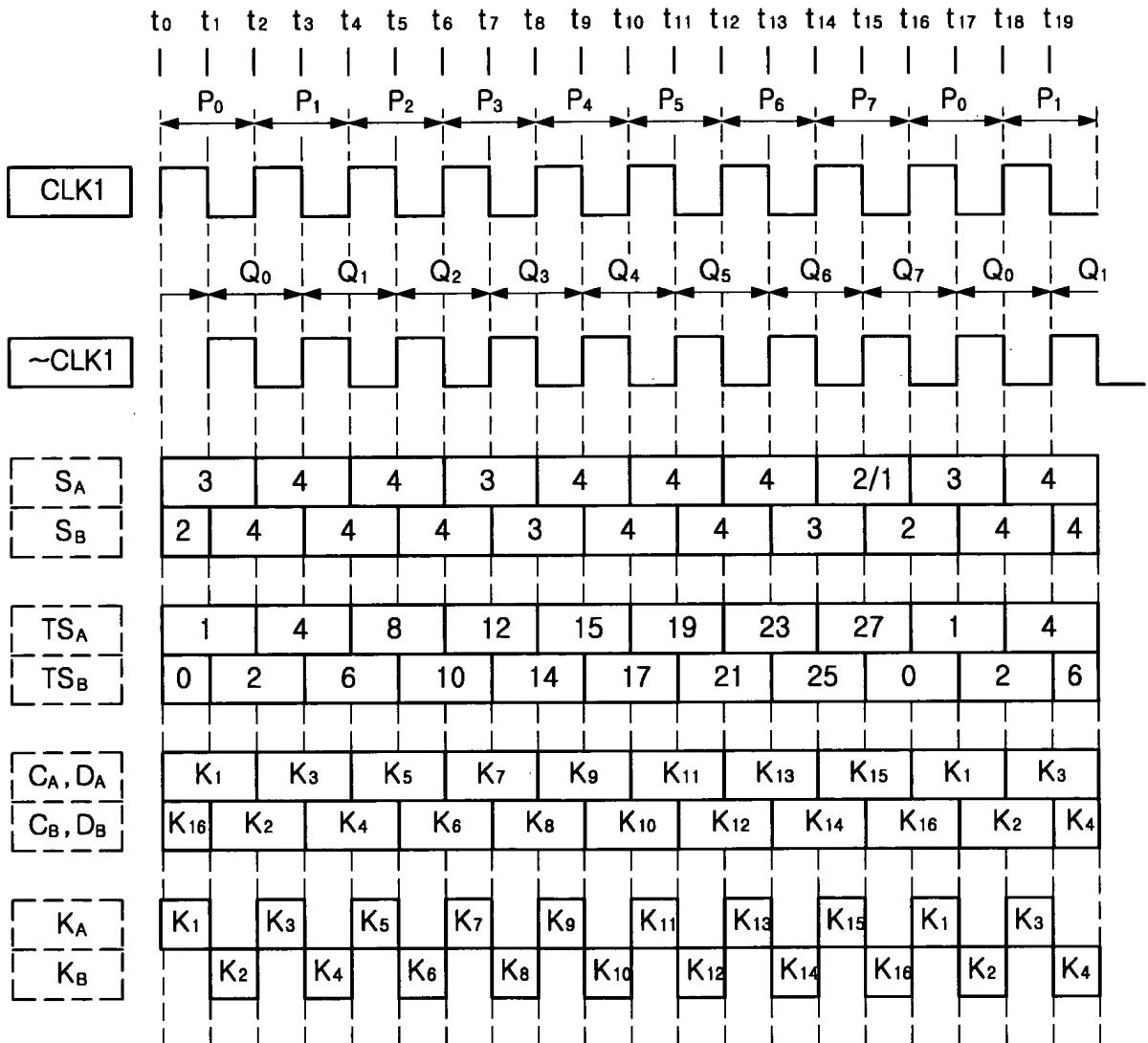


FIG. 11

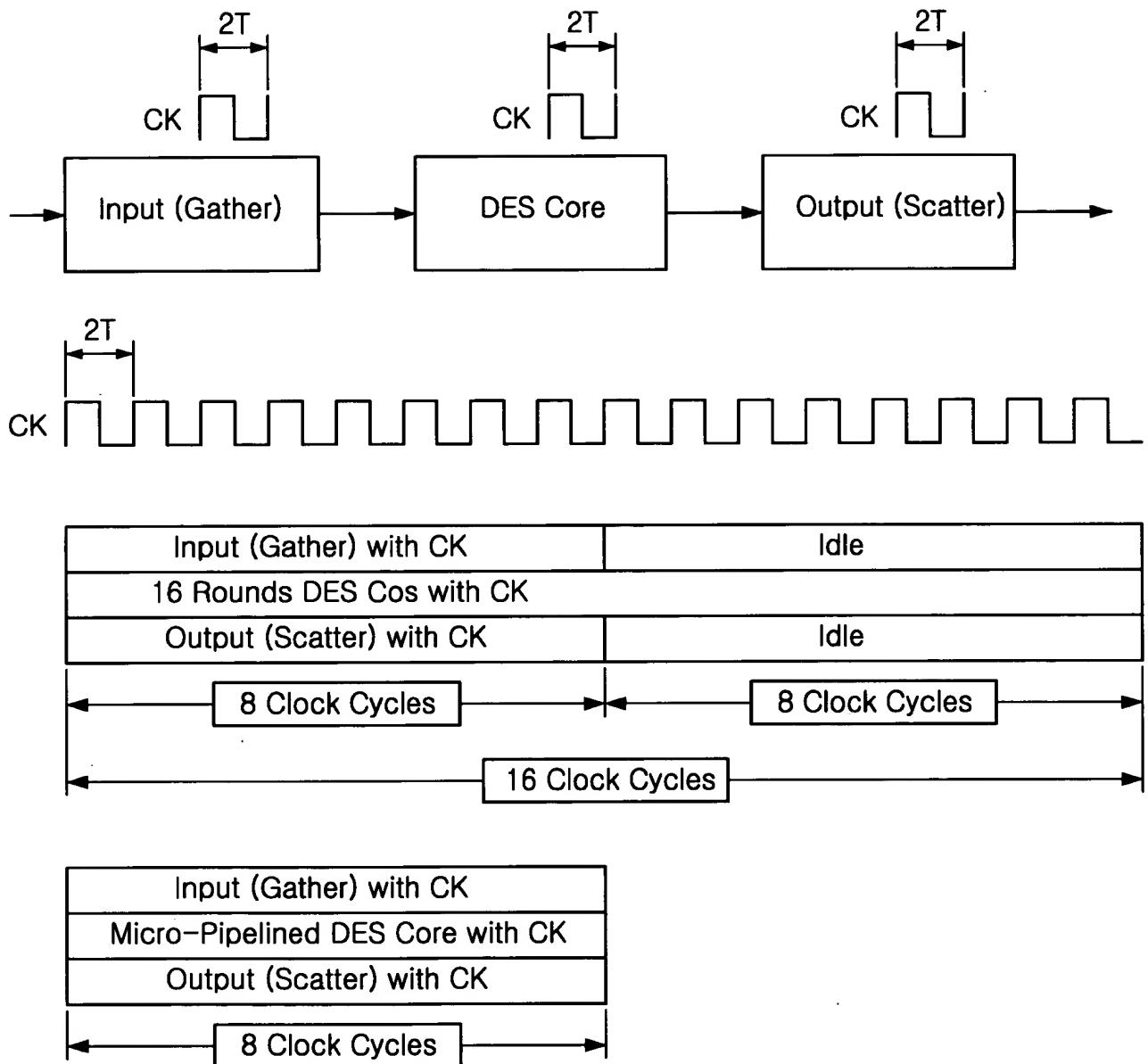


FIG. 12

